

April 22, 2003

TO: Jes E. Bascua, Art Unit 3727
CP2, Room 9-E-08

FROM: Jeanne Horrigan
ASRC Searcher in EIC3700



SUBJECT: Search Results for Serial 09/839791

Attached are the search results for the paper liner for plastic grocery bags, including results of inventor and prior art searches in foreign/international patent databases and prior art searches in non-patent literature databases. I also searched the Web using the Google search engine.

The results are organized into four sets:

- Results of inventor search in foreign/international patent databases;
- Results of prior art search in foreign/international patent databases;
- Results of non-patent literature search; and
- Internet results.

Results appear after the database names and search strategy used for those results. I tagged items that I thought seemed most relevant, but **I suggest that you review all of the results.**

Also attached is a search feedback form. Completion of the form is voluntary. Your completing this form would help us improve our search services.

I hope the attached information is useful. Please feel free to contact me (phone 305-5934 or email jeanne.horrigan@uspto.gov) if you have any questions or need additional searching on this application.

Searcher: Jeanne Horrigan
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File 9:Business & Industry(R) Jul/1994-2003/Apr 21
File 16:Gale Group PROMT(R) 1990-2003/Apr 21
File 47:Gale Group Magazine DB(TM) 1959-2003/Apr 18
File 80:TGG Aerospace/Def.Mkts(R) 1986-2003/Apr 18
File 148:Gale Group Trade & Industry DB 1976-2003/Apr 21
File 160:Gale Group PROMT(R) 1972-1989
File 621:Gale Group New Prod.Annou.(R) 1985-2003/Apr 21
File 649:Gale Group Newswire ASAP(TM) 2003/Apr 21
File 570:Gale Group MARS(R) 1984-2003/Apr 21

| Set | Items | Description |
|------------|-----------|---------------------------------------|
| S1 | 1135981 | PAPER |
| S2 | 657608 | PLASTIC |
| S3 | 149505 | LINER? ? OR LINING? ? |
| S4 | 357290 | BAG OR BAGS OR SACK OR SACKS |
| S5 | 0 | S1()S3(3N)S2()S4 |
| S6 | 357 | S1()S3 |
| S7 | 25873 | S2()S4 |
| S8 | 0 | S6 (S)S7 |
| S9 | 14 | S6 AND S7 [not relevant] |
| S10 | 1868 | PC=2643 |
| S11 | 501 | PC=3074915 |
| S12 | 0 | S9 AND S10:S11 |
| S13 | 7 | S10 AND S11 |
| S14 | 0 | S3 AND S13 |
| S15 | 12 | S6(3N)S4 |
| S16 | 0 | S15 AND S13 |
| S17 | 1 | S10:S11 AND S15 [not relevant] |
| S18 | 11 | S15 NOT (S9 OR S17) |
| S19 | 9 | RD (unique items) |
| S20 | 0 | S19/2001:2003 |
| S21 | 0 | S19 AND S10:S11 |

19/8/1 (Item 1 from file: 9)

DIALOG(R)File 9:(c) 2003 Resp. DB Svcs. All rts. reserv.
02259505

The largest producer in the sector invests in environmental protection
September 29, 1998

COMPANY NAMES: ASSIDOMAEN SEPAP

INDUSTRY NAMES: **Paper** products

PRODUCT NAMES: **Paper** and allied products (260000)

CONCEPT TERMS: All company; Capital expenditures; Pollution

GEOGRAPHIC NAMES: Czech Republic (CZR); Eastern Europe (EAEX)

19/8/4 (Item 1 from file: 16)

DIALOG(R)File 16:(c) 2003 The Gale Group. All rts. reserv.

03602375 Supplier Number: 45071382 (USE FORMAT 7 FOR FULLTEXT)

Plastics industry planners list priorities; diversify production bases, increase scale

Oct 17, 1994

Word Count: 486

PUBLISHER NAME: Vietnam Investment Review Ltd

EVENT NAMES: *600 (Market information - general)

GEOGRAPHIC NAMES: *9VIET (Vietnam)

PRODUCT NAMES: *3070000 (Plastic Products); 2821000 (Plastic Materials)

INDUSTRY NAMES: BANK (Banking, Finance and Accounting); BUSN (Any type of business); INTL (Business, International)

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NAICS CODES: 3261 (Plastics Product Manufacturing); 325211 (Plastics
Material and Resin Manufacturing)
SPECIAL FEATURES: LOB; INDUSTRY

19/8/7 (Item 1 from file: 148)

DIALOG(R) File 148:(c)2003 The Gale Group. All rts. reserv.
07280525 SUPPLIER NUMBER: 16026914 (USE FORMAT 7 OR 9 FOR FULL TEXT)
**The changing landscape of Eastern Europe: producers of packaging grades
cope by improving quality and adapting to markets.**
May, 1994

WORD COUNT: 3399 LINE COUNT: 00265
SPECIAL FEATURES: illustration; photograph
INDUSTRY CODES/NAMES: TREE Forest Products
DESCRIPTORS: **Paper** industry--Management; Europe, Eastern--Business and
industry
GEOGRAPHIC CODES: EE
GEOGRAPHIC NAMES: Europe, Eastern
PRODUCT/INDUSTRY NAMES: 2621000 (**Paper**)
SIC CODES: 2621 **Paper** mills

19/8/8 (Item 2 from file: 148)

DIALOG(R) File 148:(c)2003 The Gale Group. All rts. reserv.
02027117 SUPPLIER NUMBER: 03161039 (USE FORMAT 7 OR 9 FOR FULL TEXT)
**A creative look at leftovers. (the development of the doggie bag packaging)
(column)**

March 1, 1984

WORD COUNT: 796 LINE COUNT: 00059
INDUSTRY CODES/NAMES: TRVL Travel and Hospitality
DESCRIPTORS: Restaurants--Services; Packaging--Restaurants
SIC CODES: 5812 Eating places

File 79:Foods Adlibra(TM) 1974-2002/Apr
 File 54:FOODLINE(R): Market Data 1979-2003/Apr 17
 File 248:PIRA 1975-2003/Apr W2
 File 252:Packaging Sci&Tech 1982-1997/Oct
 File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
 File 10:AGRICOLA 70-2003/Apr
 File 51:Food Sci.&Tech.Abs 1969-2003/Apr W1
 File 53:FOODLINE(R): Food Science & Technology 1972-2003/Apr 16
 File 65:Inside Conferences 1993-2003/Apr W2
 File 94:JICST-EPlus 1985-2003/Apr W3
 File 99:Wilson Appl. Sci & Tech Abs 1983-2003/Mar
 File 144:Pascal 1973-2003/Apr W2
 File 203:AGRIS 1974-2003/Mar
 File 35:Dissertation Abs Online 1861-2003/Mar
 File 6:NTIS 1964-2003/Apr W3
 File 8:Ei Compendex(R) 1970-2003/Apr W2
 File 34:SciSearch(R) Cited Ref Sci 1990-2003/Apr W2
 File 240:PAPERCHEM 1967-2003/Apr W3
 File 323:RAPRA Rubber & Plastics 1972-2003/Apr
 File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec

| Set | Items | Description |
|------------|-----------|---|
| S1 | 3435852 | PAPER |
| S2 | 1099321 | PLASTIC |
| S3 | 96020 | LINER? ? OR LINING? ? |
| S4 | 115570 | BAG OR BAGS OR SACK OR SACKS |
| S5 | 617 | S1(2W)S3 |
| S6 | 66524 | SHOPPING OR GROCERY OR GROCERIES |
| S7 | 12345 | (S2 OR S6) (3N)S4 |
| S8 | 8 | S5 AND S7 |
| S9 | 8 | RD (unique items) |
| S10 | 8 | Sort S9/ALL/PY,D |
| S11 | 6621 | MULTIWALL? OR MULTI()WALL? ? OR DOUBLE()WALL? ? |
| S12 | 1017 | S11(3W)S4 |
| S13 | 4 | S5 AND S12 |
| S14 | 0 | S13 NOT S8 |
| S15 | 145 | S3 AND S12 |
| S16 | 122 | S1 AND S15 |
| S17 | 3991 | S1(5N)S3 |
| S18 | 71 | S16 AND S17 |
| S19 | 44 | S2 AND S18 |
| S20 | 38 | RD (unique items) |
| S21 | 34 | S20 NOT S10 |
| S22 | 0 | S21/2001:2003 |
| S23 | 219 | S1()S3 |
| S24 | 22 | S4 AND S23 |
| S25 | 4 | S2 AND S24 |
| S26 | 18 | S24 NOT S25 |
| S27 | 18 | S26 NOT (S10 OR S19) |
| S28 | 18 | RD (unique items) |
| S29 | 2 | S28/2001:2003 |
| S30 | 16 | S28 NOT S29 |
| S31 | 16 | Sort S30/ALL/PY,D |

10/7/3 (Item 3 from file: 240)

DIALOG(R)File 240:PAPERCHEM

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00103352 **PAPERCHEM NO: AB4611841**

IMPROVEMENTS IN MULTI-WALL BAGS

St. Regis **Paper Co**

PATENT NUMBER: GB 1411759 PATENT DATE: 751029

PATENT APP# - DATE OF APPLICATION

GB 7256644 - 721208

US 235908 - 720320

SOURCE: Brit. pat. 1,411,759. Issued Oct. 29, 1975. 8 claims. 9 p. Filed: Brit. appln. 56644/72 (Dec. 8, 1972). Priority: U.S. appln. 235,908 (March 20, 1972).

PUBLICATION YEAR: 1975

DOCUMENT TYPE: PATENT

LANGUAGES: ENGLISH

A multi-ply **paper** bag of gusseted pinch-bottom type is provided with a plastic film liner which is only loosely bonded to the adjacent **paper** ply. The **liner** may be provided with end seals which are not involved in the end closures of the **paper** part of the bag. Thus, the **paper** plies may be stripped away from the filled and sealed **plastic bag**, and the exterior of the **plastic bag** can be sterilized prior to opening. The bag can then be opened and emptied without contaminating its contents.

10/7/5 (Item 5 from file: 240)

DIALOG(R) File 240: **PAPERCHEM**

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00052970 **PAPERCHEM NO: AB4211199**

STUDIES OF SACKS FOR FOREST FERTILIZERS

Nord-Emballage

SOURCE: Nord-Emballage 36, no. 3: 12, 47-8 (March, 1970). [Swed.]

PUBLICATION YEAR: 1970

DOCUMENT TYPE: JOURNAL ARTICLE

LANGUAGES: SWEDISH

Three main types of sacks were studied: sewn multi-ply **paper** bags (creped **paper** plus PE **liner**) with infolded sides for urea (46%), KV (Clupak) **paper** valve bags (also with PE liner) with canister bottom for wood nitrate (32-33% N), and welded (heat-sealed) **plastic bags** for ammonium nitrate (34.5%). The field expts. included storage, transport from railroad depot to air field, aerial spreading, disposal, and costs. Comparative performances of bags from various aspects are indicated.

10/7/6 (Item 6 from file: 240)

DIALOG(R) File 240: **PAPERCHEM**

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00018827 **PAPERCHEM NO: AB3909074**

NEW BAG MADE OF PAPER/ PLASTIC COMBINATION

La Charfa SA

PATENT NUMBER: FR 1480244 PATENT DATE: 670403

SOURCE: Fr. pat. 1,480,244. Issued April 3, 1967. 1 claim. 3 p.

PUBLICATION YEAR: 1967

DOCUMENT TYPE: PATENT

LANGUAGES: FRENCH

A bag is made up of an exterior plastic film layer and an inner **paper liner** elt. The **paper liner** elt. is constructed to permit transversal expansion, thus allowing the more stretchable plastic film layer to carry a greater share of any load within the bag.

10/7/7 (Item 7 from file: 240)

DIALOG(R) File 240: PAPERCHEM

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00013981 PAPERCHEM NO: AB3904228

MULTIWALL CROSS-BOTTOM BAG OF PAPER WITH INNER LINER OF
PLASTIC-COATED PAPER

Franz, W.; Bischof & Klein

PATENT NUMBER: DE 1218931 PATENT DATE: 670202

SOURCE: Ger. pat. 1,218,931. Issued Feb. 2, 1967. 2 claims. 3 p. [Ger.]

PUBLICATION YEAR: 1967

DOCUMENT TYPE: PATENT

LANGUAGES: GERMAN

A multiwall paper bag incorporates an inner plastic-coated paper layer shaped so as not to interfere with the gluing of the bag cross bottom.

21/6/4 (Item 3 from file: 240)

00128389 PAPERCHEM NO: AB4900758

CROSS-BOTTOM VALVE BAG OF PAPER WITH A TUBULAR INNER LINER OF
PLASTIC FILM

PUBLICATION YEAR: 1977

21/6/6 (Item 5 from file: 240)

00115463 PAPERCHEM NO: AB4711862

METHOD AND APPARATUS FOR MAKING A CROSS-BOTTOM BAG HAVING AN INNER LAYER
INCORPORATED IN THE FOLDING OF THE END CLOSURE

PUBLICATION YEAR: 1976

21/6/7 (Item 6 from file: 240)

00109020 PAPERCHEM NO: AB4705419

GUSSETED PINCH-BOTTOM BREAKAWAY POUCH BAG

PUBLICATION YEAR: 1976

21/6/8 (Item 7 from file: 240)

00106667 PAPERCHEM NO: AB4703066

CROSS-BOTTOM BAG AND METHOD OF MAKING SAME

PUBLICATION YEAR: 1976

21/6/9 (Item 8 from file: 240)

00103218 PAPERCHEM NO: AB4611707

METHOD FOR MAKING A CROSS-BOTTOM BAG HAVING A PLASTICS LINER
INCORPORATED IN THE FOLDING OF THE END CLOSURE

PUBLICATION YEAR: 1975

21/6/12 (Item 11 from file: 240)

00091126 PAPERCHEM NO: AB4512285

PROCESS AND APPARATUS FOR MANUFACTURING A CROSS-BOTTOM BAG WITH PLASTIC
INNER LINER INCLUDED IN THE BOTTOM FOLD

PUBLICATION YEAR: 1974

21/6/13 (Item 12 from file: 240)

00090012 PAPERCHEM NO: AB4511171

MULTIWALL CROSS-BOTTOM BAG WITH HEAT-SEALED PLASTIC INNER LINER

PUBLICATION YEAR: 1974

21/6/15 (Item 14 from file: 240)

00077476 PAPERCHEM NO: AB4411255

GUSSETED TYPE BAGS

PUBLICATION YEAR: 1973

21/6/17 (Item 16 from file: 240)
00070464 PAPERCHEM NO: AB4404243
PROCESS FOR MANUFACTURING BAGS COMPRISING A LINER BAG WHICH PROTRUDES
FROM THE OPENING
PUBLICATION YEAR: 1973

21/6/18 (Item 17 from file: 240)
00068183 PAPERCHEM NO: AB4401962
MULTIWALL VALVE BAG
PUBLICATION YEAR: 1972

21/6/19 (Item 18 from file: 240)
00065915 PAPERCHEM NO: AB4312144
MULTI-PLY BAGS
PUBLICATION YEAR: 1972

21/6/21 (Item 20 from file: 240)
00063674 PAPERCHEM NO: AB4309903
METHOD OF MANUFACTURING PAPER BAGS PROVIDED WITH AN INNER LINING
MEMBER OF PLASTIC MATERIAL AND BAG ACHIEVED ACCORDING TO THE METHOD
PUBLICATION YEAR: 1971

21/6/22 (Item 21 from file: 240)
00057043 PAPERCHEM NO: AB4303272
TUBE-FORMING MACHINES
PUBLICATION YEAR: 1971

21/6/23 (Item 22 from file: 240)
00045846 PAPERCHEM NO: AB4204075
PROCESS AND APPARATUS FOR MANUFACTURING BAGS COMPRISING A LINER BAG
WHICH PROTRUDES FROM THE OPENING
PUBLICATION YEAR: 1971

21/6/24 (Item 23 from file: 240)
00043804 PAPERCHEM NO: AB4202033
MULTI-PLY BAG
PUBLICATION YEAR: 1971

21/6/25 (Item 24 from file: 240)
00039549 PAPERCHEM NO: AB4108818
METHOD OF MANUFACTURING PAPER BAGS PROVIDED WITH AN INNER LINING
MEMBER OF PLASTIC MATERIAL
PUBLICATION YEAR: 1970

21/6/26 (Item 25 from file: 240)
00038386 PAPERCHEM NO: AB4107655
MULTI-PLY BAG, PROCESS AND APPARATUS FOR THE MANUFACTURE THEREOF
PUBLICATION YEAR: 1970

21/6/27 (Item 26 from file: 240)
00037570 PAPERCHEM NO: AB4106839
METHOD OF MAKING A FLAT BOTTOM MULTI-PLY BAG
PUBLICATION YEAR: 1970

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21/6/28 (Item 27 from file: 240)
00031383 PAPERCHEM NO: AB4100651
BAG MANUFACTURE
PUBLICATION YEAR: 1969

21/6/29 (Item 28 from file: 240)
00031382 PAPERCHEM NO: AB4100650
PROCESS AND APPARATUS FOR THE MANUFACTURE OF MULTI-PLY BAGS
PUBLICATION YEAR: 1970

21/6/31 (Item 30 from file: 240)
00025253 PAPERCHEM NO: AB4005201
MULTI-PLY BAGS AND A PROCESS AND APPARATUS FOR THE MANUFACTURE THEREOF
PUBLICATION YEAR: 1969

21/6/32 (Item 31 from file: 240)
00021581 PAPERCHEM NO: AB4001529
MULTI-PLY PAPER BAG WITH PLASTIC LINER OF SMALLER DIMENSION
PUBLICATION YEAR: 1968

21/6/33 (Item 32 from file: 240)
00017315 PAPERCHEM NO: AB3907562
BAG PERFORMANCE RESTS ON HOW FILM PLY STRETCHES
PUBLICATION YEAR: 1968

21/6/34 (Item 33 from file: 240)
00012106 PAPERCHEM NO: AB3902353
BAGS AND METHOD OF THEIR MANUFACTURE
PUBLICATION YEAR: 1968

21/7/1 (Item 1 from file: 248)
DIALOG(R) File 248:PIRA
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00040184 Pira Acc. Num.: 1133534 Pira Abstract Numbers: 03-76-03534
Title: THE UBIQUITOUS PAPER SACK

Authors: Rudd T
Source: MATER. HANDL. NEWS no 224 July 1976 pp 81 83
Publication Year: 1976
Document Type: Journal Article
Language: unspecified
Pira Subfiles: International Packaging Abstracts (PK)
Journal Announcement: 7611
Abstract: A new campaign to promote the use of **paper** sacks has been launched by the **Paper** Sack Development Association , representing 13 UK **paper** sack manufacturers. With the advent of **multi - wall sacks** incorporating a variety of plies, **linings** , coatings, impregnations or reinforcing materials, **paper** sacks can now reportedly be used to package toxic or sensitive chemicals. When the sacks are left in the rain, moisture does not penetrate the contents. **Paper** sacks can withstand a number of 10 ft drops on the bag corners and reportedly have better puncture resistance than plastics materials. It is also claimed that they form a more stable pallet load than **plastic** containers, occupy one-fortieth of the space needed by alternative rigid products when empty; can be overprinted to a high standard and can incorporate waste **paper** to save raw material.

21/7/3 (Item 2 from file: 240)

DIALOG(R) File 240: **PAPERCHEM**

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00133949 **PAPERCHEM** NO: AB4906318

MEANS FOR PREVENTING DRY BURN IN A PAPER PLASTIC DUNNAGE BAG

Reeves, R. L

PATENT NUMBER: CA 1033219 PATENT DATE: 780620 PATENT CLASS#: 105-180

PATENT APP# - DATE OF APPLICATION

CA 224077 - 750408

US 520014 - 741101

US 536636 - 741226

SOURCE: Can. pat. 1,033,219. Issued June 20, 1978. 14 claims. 13 p.
Cl.105-180. Filed: Can. appln. 224,077 (April 8, 1975). Priority: U.S.
appln. 520,014 (Nov. 1, 1974); U.S. appln. 536,636 (Dec. 26, 1974).

PUBLICATION YEAR: 1978

DOCUMENT TYPE: PATENT

LANGUAGES: ENGLISH

This inflatable multi-ply **paper / plastic** dunnage bag including means for preventing the incoming inflation air from damaging the **plastic liner** of the bag is similar to that described in U.S. pat. 3,944,084; cf. ABIPC 47: abstr. 3070.

21/7/10 (Item 9 from file: 240)

DIALOG(R) File 240: **PAPERCHEM**

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00093480 **PAPERCHEM** NO: AB4601969

MULTILAYER BAG

Sander, R.; Wilhelmstal-Werke GmbH. Papiersackfabriken

PATENT NUMBER: DE 2319672 PATENT DATE: 741114

SOURCE: Ger. pat. 2,319,672. DOS Nov. 14, 1974. 4 claims. 7 p.

PUBLICATION YEAR: 1974

DOCUMENT TYPE: PATENT

LANGUAGES: GERMAN

A **multiwall bag** incorporating an outer layer preferably of **paper** and an inner **plastic** -film **liner** is characterized by an improved valve element in the bottom of the **liner** for releasing air during the filling of the bag.

21/7/11 (Item 10 from file: 240)

DIALOG(R) File 240: **PAPERCHEM**

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00092165 **PAPERCHEM** NO: AB4600654

APPARATUS FOR MANUFACTURING BAGS WITH AN INNER BAG WHICH HAS A Z-FOLD

Winnemoller, A.; Windmoller & Holscher

PATENT NUMBER: US 3868892 PATENT DATE: 750304 PATENT CLASS#: 93/8W

PATENT APP# - DATE OF APPLICATION

US 394818 - 730906

DE 2244697 - 720912

SOURCE: U.S. pat. 3,868,892. Issued March 4, 1975. 12 claims. 11 p.
Cl.93/8W. Filed: U.S. appln. 394,818 (Sept. 6, 1973). Priority: Ger.
2,244,697 (Sept. 12, 1972).

PUBLICATION YEAR: 1975

DOCUMENT TYPE: PATENT

LANGUAGES: ENGLISH

This apparatus for making **paper** bags lined with **plastic** is similar to that described in Ger. pat. 2,244,697; cf. ABIPC 45: abstr. 9783.

21/7/14 (Item 13 from file: 240)

DIALOG(R) File 240:PAPERCHEM

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00080239 PAPERCHEM NO: AB4501398

SACKS AND BAGS: NEW POTENTIALS

Packaging

SOURCE: Pkg. (London) 45, no. 527: 20, 22, 24 (Feb., 1974).

PUBLICATION YEAR: 1974

DOCUMENT TYPE: JOURNAL ARTICLE

LANGUAGES: ENGLISH

In the pkg. of matls. there are many instances where a sack or bag may serve as well, or better, than a more elaborate package, such as a rigid carton. The range of bag constructions is revd. These include **multiwall paper sacks**, **plastic** film-lined **paper** bags, **plastic** film bags, woven constructions of various matls., and nettings incl. the new integrally-extruded **plastic** nettings. The capabilities of the various types are examd. and compared. The concept of a returnable bag pkg. system is considered.

21/7/16 (Item 15 from file: 240)

DIALOG(R) File 240:PAPERCHEM

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00070618 PAPERCHEM NO: AB4404397

MULTIWALL BAG

Sander, R.; Wilhelmstal Werke GmbH. Papiersackfabriken

PATENT NUMBER: DE 2116428 PATENT DATE: 721012

SOURCE: Ger. pat. 2,116,428. DOS Oct. 12, 1972. 3 claims. 8 p.

PUBLICATION YEAR: 1972

DOCUMENT TYPE: PATENT

LANGUAGES: GERMAN

A **multiwall paper** cross-bottom **bag** incorporates an inner **plastic** film **liner** attached in a manner insuring full expansion upon filling.

21/7/20 (Item 19 from file: 240)

DIALOG(R) File 240:PAPERCHEM

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00065265 PAPERCHEM NO: AB4311494

NEW HORIZONS AT GREAT PLAINS (BAG CORP.)

Paper, Film & Foil Converter

SOURCE: **Paper** Film Foil Conv. 46, no. 3: 23-7 (March, 1972).

PUBLICATION YEAR: 1972

DOCUMENT TYPE: JOURNAL ARTICLE

LANGUAGES: ENGLISH

Great Plains Bag Corp. produces **multiwall paper** bags, **plastic** bags and **liners**, and shrink film pallet bags at its two plants in Des Moines, Iowa, and Jacksonville, Ark. The firm recently merged with Continental Can Co. Facilities and operations at the two plants are described briefly.

21/7/30 (Item 29 from file: 240)

DIALOG(R) File 240:PAPERCHEM

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00029333 PAPERCHEM NO: AB4009281

MULTIWALL BAG AND METHOD

Reeves, R. L.; International Paper Co

PATENT NUMBER: CA 822524 PATENT DATE: 690909

SOURCE: Can. pat. 822,524. Issued Sept. 9, 1969. 8 claims.
PUBLICATION YEAR: 1969
DOCUMENT TYPE: PATENT
LANGUAGES: ENGLISH

An improved method is provided for assembling and gluing a no. of plies of sheet matl. to form a tubular structure of use in making multi-ply **paper** bags having an inner **liner** of **plastic** film.

25/7/2 (Item 1 from file: 583)

DIALOG(R) File 583:Gale Group Globalbase(TM)

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04232527

PCA SUPPLIES PACKAGING TO PILSBURY

US - PCA SUPPLIES PACKAGING TO PILSBURY

Food & Drug Packaging (FDDP) 0 April 1991 p24

ISSN: 0015-6272

Pilsbury is using triple-wall corrugated BulkMaster bins from Packaging Corp of America for its Green Giant potatoes. The bins have a clay-coated kraft **paper** **lining**, and cut down on in-store handling. They can hold 200 5 lb **bags**, 100 10 lb **bags** or bulk potatoes.

25/7/3 (Item 1 from file: 240)

DIALOG(R) File 240:PAPERCHEM

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00091726 PAPERCHEM NO: AB4600215

BARRIERS IN SYNERGIZED PYRETHRINS-TREATED PAPER BAGS TO PREVENT MIGRATION OF PIPERONYL BUTOXIDE INTO CORNMEAL, FLOUR, AND CSM

Highland, H. A.; Secreast, M

SOURCE: U.S. Dept. Agr. Tech. Bull. no. 1475: 1-14 (1973).

PUBLICATION YEAR: 1973

DOCUMENT TYPE: JOURNAL ARTICLE

LANGUAGES: ENGLISH

The migration of piperonyl butoxide from the outer treated ply of multiwall kraft **paper** **bags** having various barriers into the **bag** contents (flour; cornmeal; or CSM, a cereal consisting of cornmeal, soy flour, dry milk, vitamins, and minerals) was determined. Greaseproof **paper** **liners** were the best insect barrier tested. Almost as effective were saran-coated kraft barriers precoated with styrene-butadiene. A PE/saran-coated kraft barrier was less effective than either the greaseproof **paper** or the styrene-butadiene/saran-coated kraft. Piperonyl butoxide residues in cornmeal and flour in **bags** with a PV alc.-coated kraft ply were similar to residues in the control **bags**, whereas CSM in **bags** with a PV alc.-coated kraft ply had higher residues than CSM in control **bags**. Two saran coatings over styrene-butadiene or PE provided better protection than did a single coating. Pinholes in the saran coating did not greatly decrease the effectiveness of the coatings. Most of the treated **bags** resisted insect infestation for 15 months regardless of the type of barrier. (14 tab.)

31/6/12 (Item 12 from file: 248)

00013937 Pira Acc. Num.: 3710406 Pira Abstract Numbers: 01-81-00406

Title: **NEW INTEGRATED PULP AND PAPER MILL ORDERED**

Publication Year: 1980

31/6/16 (Item 16 from file: 240)

00034930 PAPERCHEM NO: AB4104199

BOISE SOUTHERN (CO., DeRIDDER, LA.) STARTS GIANT KRAFT PAPER, LINER,

AND NEWSPRINT COMPLEX
PUBLICATION YEAR: 1970

31/7/3 (Item 3 from file: 248)

DIALOG(R) File 248:PIRA

(c) 2003 Pira International. All rts. reserv.

00408093 Pira Acc. Num.: 20029387

Title: BUSY SONOCO TARGETS EXPANSION INTO EURO MARKET

Authors: Pidgeon R

Source: Packag. Week vol. 10, no. 42, 13 Apr. 1995, pp 24-25 (P, S)

ISSN: 0267-6117

Publication Year: 1995

Document Type: Journal Article

Language: English

Pira Subfiles: **Paperbase** (PB); International Packaging Abstracts (PK)

Journal Announcement: 9508

Abstract: Improvements to can designs, the switch to advanced **paper liners**, increased percentage of recycled materials used, reduction in costs and lightweighting have helped steer Sonoco Consumer Products forward. Production of the company's board cans in Manchester and at Lievin in France is up by 8%. Formerly a joint venture company, CMB Sonoco Composites, Sonoco is now sole owner having bought out the CMB holding. The new design of board cans offer environmental benefits and shelf appeal as well as 15% savings in cost compared to tin cans. Latest developments include the Can-O- **Bag** with a sealed top, the SafeTop with outwardly curled top rim and peelable diaphragm, eliminating the need for a metal ring, and non-round cans produced in the USA.

31/7/8 (Item 8 from file: 248)

DIALOG(R) File 248:PIRA

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00182520 Pira Acc. Num.: 8511950 Pira Abstract Numbers: 01-89-00719

Title: CENTENARY OF PAPIERFABRIK NEUSTADT

Authors: Anon

Source: Wochenbl. Papierfabr. vol. 116, no. 23-24, mid Dec. 1988, p. 1071

ISSN: 0043-7131

Publication Year: 1988

Document Type: Journal Article

Language: German

Pira Subfiles: **Paper** and Board Abstracts (PB)

Journal Announcement: 8903

Abstract: Papierfabrik Neustadt GmbH, which has just celebrated its centenary, boasts a wide range of products including sulphate **paper**, envelope and dispatch **bag paper**, label **paper**, uncoated textile transfer **paper**, coating base **paper**, lining **paper**, paraffin base **paper**, greaseproof **paper**, kraft **paper**, sulphite **paper**, heat and cold sealing **paper**, coated **paper** and board, laser printing **paper**, carbonless **paper** and facsimile **paper**. The company has 2 **paper** machines of 235 and 325 cm working width, a supercalender, dispersion coater and extruder-laminator. Production for 1988 is expected to reach 45,000 tonnes for a turnover of DM74 million plus DM13 million in the conversion department.

31/7/11 (Item 11 from file: 248)

DIALOG(R) File 248:PIRA

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00050851 Pira Acc. Num.: 3331228 Pira Abstract Numbers: 03-80-01228

Title: HOT MELT BREAKTHROUGH YIELDS TOUGHER BONDS WITH FEWER PROBLEMS

Source: PACKAGE ENGNG vol 25 no 1 Jan 1980 pp 48-50

Publication Year: 1980

Document Type: Journal Article

Language: unspecified

Pira Subfiles: International Packaging Abstracts (PK)

Journal Announcement: 8006

Abstract: The development by Nordson Corp. and use of a foaming hot melt adhesive system to improve adhesive properties are described. Details are given of the features of hot melt adhesion improved by foaming, including: longer time before the joining of two surfaces, quicker setting time once surfaces are joined; improved spreading properties; greater gap filling ability; less thermal distortion of substrate; improved wetting and reduced adhesive consumption. The equipment required for the production and application of foamed hot melt adhesives is considered. Advantages in the use of foamed hot melts for bonding thin polyethylene film to heavy duty **paper liner** in the formation of industrial **sacks** and in sealing of the **sacks** after filling are explained. Future areas for the use of foamed hot melt adhesives are discussed.

File 9:Business & Industry(R) Jul/1994-2003/Apr 21
File 20:Dialog Global Reporter 1997-2003/Apr 22
File 481:DELPHEES Eur Bus 95-2003/Apr W2
File 635:Business Dateline(R) 1985-2003/Apr 22
File 636:Gale Group Newsletter DB(TM) 1987-2003/Apr 21
File 98:General Sci Abs/Full-Text 1984-2003/Mar

| Set | Items | Description |
|------------|----------|---|
| S1 | 905459 | PAPER |
| S2 | 339051 | PLASTIC |
| S3 | 127226 | LINER? ? OR LINING? ? |
| S4 | 356823 | BAG OR BAGS OR SACK OR SACKS |
| S5 | 9 | S1()S3(S)S4 |
| S6 | 9 | RD (unique items) |
| S7 | 3 | S6/2001:2003 |
| S8 | 6 | S6 NOT S7 |
| S9 | 293 | S1(3W)S3 |
| S10 | 906487 | GROCERY OR GROCERIES OR SHOPPING |
| S11 | 35091 | (S2 OR S10) (2W)S4 |
| S12 | 7 | S9 AND S11 |
| S13 | 7 | S12 NOT S5 |
| S14 | 6 | RD (unique items) |
| S15 | 2 | S14/2001:2003 |
| S16 | 4 | S14 NOT S15 |

8/8/5 (Item 2 from file: 20)

DIALOG(R)File 20:(c) 2003 The Dialog Corp. All rts. reserv.
10704866 (USE FORMAT 7 OR 9 FOR FULLTEXT)

India: Gunny sacks more economical: IIT

April 24, 2000

WORD COUNT: 530

DESCRIPTORS: Service & Product Use; Company News

COUNTRY NAMES/CODES: India (IN)

REGIONS: Asia; South Asia

SIC CODES/DESCRIPTIONS: 2821 (Plastics Materials & Resins); 9651
(Regulation of Miscellaneous Commercial Sectors)

NAICS CODES/DESCRIPTIONS: 325211 (Plastics Material & Resins Mfg); 92615
(Regulation Licensing & Inspection of Miscellaneous Commercial Sectors)

8/7/2 (Item 2 from file: 9)

DIALOG(R)File 9:Business & Industry(R)
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01865918

Sepap integrates into a Swedish firm

(AssiDomaen purchases a 51% stake in Sepap for 130 mil USD)

Svet hospodarstvi, p 7

June 12, 1997

ABSTRACT:

Sepap Steti (Steti, Czech Republic), **paper** firm, has a 90% stake held by the **paper** and forestry company AssiDomaen (Sweden). AssiDomaen bought a 51% decisive stake in Sepap for 130 mil USD, 4.1 bil Kc, from Daventree (Bahamas). In 1996 Sepap saw proceeds of 5.6 bil Kc and a gross profit of 872 mil Kc. The firm's production capacities are 305,000 t of pulp and **paper**. Sepap has focused its development on four production programmes, **bag paper** and **paper bags**, unilaterally glazed packaging **paper**, **liner** production and bleached sulphate pulp production..

8/7/3 (Item 3 from file: 9)

DIALOG(R)File 9:Business & Industry(R)
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01409769

Sepap before the end of the first investment stage

(Sepap is investing 1.56 bil Kc in pulping operations; will boost bleached and unbleached pulp output)

Svet hospodarstvi, p 6

February 15, 1996

ABSTRACT:

Sepap (Czech Republic), pulp producer, will end the first stage of its investment programme in 1996. The programme includes the implementation of bleached chemical sulphate pulp production by chlorineless bleaching technology from March 1996. The firm will increase the production to 187,000 t/y, one third more vs the present. The firm's production of 115,000 t/y of non bleached pulp will increase too. Sepap's investments in pulp production will total 1.56 bil Kc. The second stage will include quick returnable investments in the production of **bag paper**, **liners** and diagnostics. The third stage will include investments in strategically suitable firms in Middle and East Europe. The investments are expected to be 4-6 bil Kc during three stages. Sepap expects to see a turnover of 9 bil Kc in 1996 vs 7.2 bil Kc in 1995. About 55-60% of the firm's proceeds should be represented by exports in 1995. Sepap's pre-tax profit should be about 1.65 bil Kc in 1996 vs 1.2 bil Kc in 1995. Sepap has a 50.96% stake held by Stratton (US), together with Harvard Capital & Consulting (Czech Republic) and a 39% stake by AssiDomaen (Sweden).

Searcher: Jeanne Horrigan
Serial 09/839791
April 22, 2003

15

File 350:Derwent WPIX 1963-2003/UD,UM &UP=200325
File 347:JAPIO Oct 1976-2002/Dec(Updated 030402)
File 371:French Patents 1961-2002/BOPI 200209

| Set | Items | Description |
|-----------|----------|--|
| S1 | 462314 | PAPER |
| S2 | 371699 | PLASTIC |
| S3 | 120854 | LINER? ? OR LINING? ? |
| S4 | 151647 | BAG OR BAGS OR SACK OR SACKS |
| S5 | 1103 | IC=B65D-030/08 |
| S6 | 364 | IC=B65D-033/10 |
| S7 | 232 | S1()S3 |
| S8 | 6756 | S2(2W)S4 |
| S9 | 2 | S7 AND S8 [1 duplicate, 1 not relevant] |
| S10 | 1013 | S3 (3N)S4 |
| S11 | 19181 | S1(S)S2 |
| S12 | 21 | S10(S)S11 |
| S13 | 1 | S5 AND S12 |
| S14 | 0 | S13 NOT S9 |
| S15 | 1 | S6 AND S12 |
| S16 | 0 | S15 NOT S9 |

by Antonio

File 348:EUROPEAN PATENTS 1978-2003/Apr W02
File 349:PCT FULLTEXT 1979-2002/UB=20030417,UT=20030410

| Set | Items | Description |
|-----|--------|------------------------------------|
| S1 | 164126 | PAPER |
| S2 | 232731 | PLASTIC |
| S3 | 52667 | LINER? ? OR LINING? ? |
| S4 | 56198 | BAG OR BAGS OR SACK OR SACKS |
| S5 | 106 | IC=B65D-030/08 |
| S6 | 37 | IC=B65D-033/10 |
| S7 | 1 | S5 AND S6 |
| S8 | 464 | S1()S3 |
| S9 | 6923 | S2(2W)S4 |
| S10 | 6 | S8(S)S9 |
| S11 | 0 | S10 AND S5 |
| S12 | 6 | S10 NOT S7 |
| S13 | 885 | S1(2W)S3 |
| S14 | 22 | S13(5N)S4 |
| S15 | 0 | S5 AND S14 |
| S16 | 0 | S6 AND S14 |
| S17 | 18 | S14 NOT (S7 OR S12) [not relevant] |

7/6/1 (Item 1 from file: 348)
00816559
Cooling bag

12/6/1 (Item 1 from file: 348)
00611389
LINED AND COATED CORRUGATED PAPERBOARD PACKAGE SYSTEMS FOR MODIFIED
ATMOSPHERE PACKAGING OF FRESH FRUITS AND VEGETABLES

12/6/2 (Item 2 from file: 348)
00396558
Containers having upper and lower sections of different thicknesses and
extrusion blow-molding methods to form same.

12/6/4 (Item 1 from file: 349)
00367732 **Image available**
PYRAMIDAL RECEPTACLES AND DISPLAYS
Publication Year: 1997

12/6/6 (Item 3 from file: 349)
00247849 **Image available**
LINED AND COATED CORRUGATED PAPERBOARD PACKAGE SYSTEMS FOR MODIFIED
ATMOSPHERE PACKAGING OF FRESH FRUITS AND VEGETABLES
Publication Year: 1993

12/3,K/3 (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00308849
Container.
Behälter.
Recipient.
PATENT ASSIGNEE:

Robbins, Edward S., III, (941810), 459 N. Court Street, Florence Alabama
35630, (US), (applicant designated states: BE;CH;DE;FR;GB;IT;LI;NL;SE)

INVENTOR:

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LEGAL REPRESENTATIVE:

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Lincoln's Inn, London WC2A 3SZ, (GB)

PATENT (CC, No, Kind, Date): EP 279547 A1 880824 (Basic)

APPLICATION (CC, No, Date): EP 88300799 880129;

PRIORITY (CC, No, Date): US 8658 870130

DESIGNATED STATES: BE; CH; DE; FR; GB; IT; LI; NL; SE

INTERNATIONAL PATENT CLASS: B65D-001/26; B65D-077/18;

ABSTRACT WORD COUNT: 71

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

| Available Text | Language | Update | Word Count |
|------------------------------------|-----------|--------|------------|
| CLAIMS A | (English) | EPABF1 | 977 |
| SPEC A | (English) | EPABF1 | 5204 |
| Total word count - document A | | | 6181 |
| Total word count - document B | | | 0 |
| Total word count - documents A + B | | | 6181 |

...SPECIFICATION capable of assuming or maintaining a predetermined shape.

Further, in many environments, **paper**, cardboard and **plastic bags** are not suitable for use alone and must be used in conjunction with other containers...

...a self-supporting plastic material and then to line the container with a **paper** or **plastic bag**. **Paper bag** liners, of course, lack strength, resilience and the capacity to contain and confine liquid materials. **Plastic bag** liners, on the other hand, are easily punctured by the contents of the container. In...

...or plastic liner from the supporting container and replace it with a fresh **paper** or **plastic bag** liner. **Paper** or **plastic bag** liners frequently break or tear when lifted from a supporting container. Tearing is often caused by depositing material into a plastic liner and frequently, in the case of **paper liners**, by a weakening of the bag in the areas where fluid has been absorbed. Additionally...

File 348:EUROPEAN PATENTS 1978-2003/Apr W02
File 349:PCT FULLTEXT 1979-2002/UB=20030417,UT=20030410
Set Items Description
S1 1 AU="D'ANTONIO ROCCO III" [not relevant]

File 350:Derwent WPIX 1963-2003/UD,UM &UP=200325
File 347:JAPIO Oct 1976-2002/Dec(Updated 030402)
File 371:French Patents 1961-2002/BOPI 200209
Set Items Description
S1 1 AU="D'ANTONIO R"
S2 3 AU="D'ANTONIO R A" OR AU="D'ANTONIO R W"
S3 1 AU='DANTONIO R'
S4 2 S1 OR S3
S5 3 S2 NOT S4 [not relevant]

4/7/1 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.
014384748 **Image available**
WPI Acc No: 2002-205451/200226

Paper liner for plastic grocery bags has a base

Patent Assignee: D'ANTONIO R (DANT-I)

Inventor: D'ANTONIO R

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|----------------|------|----------|---------------|------|----------|----------|
| US 20020021845 | A1 | 20020221 | US 2000199557 | P | 20000425 | 200226 B |
| | | | US 2001839791 | A | 20010420 | |

Priority Applications (No Type Date): US 2000199557 P 20000425; US
2001839791 A 20010420

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
US 20020021845 A1 8 B65D-030/08 Provisional application US 2000199557
Abstract (Basic): US 20020021845 A1

NOVELTY - **Paper** liner (25) for plastic grocery sacks (20) having
base whose perimeter is approximately equal to base perimeter of
standard plastic grocery sacks and height approximately equal to height
of collar of standard plastic grocery sacks when standard plastic
grocery sacks are opened and expanded. **Paper** liner for plastic grocery
sacks wherein grade of **paper** is between 35 lbs. and 50 lbs.

USE - **Paper** liner for plastic grocery bags

DESCRIPTION OF DRAWING(S) - The drawing shows an elevation of a
standard 1/6-barrel plastic grocery sack lined with a standard
1/8-barrel **paper** sack shown mostly in broken lines
plastic grocery sacks (20)
paper liner (25)
pp; 8 DwgNo 1/6

Derwent Class: P28

International Patent Class (Main): B65D-030/08

International Patent Class (Additional): B65D-033/10

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- Ready Reckoner
- ISO Certificate
- Quality Policy
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- Contact Us
- F B C

Our Product Range

We are manufacturing woven bags and fabrics, used as an industrial packaging material. The packaging bags and fabrics are available mostly in HDPE (High Density Poly Ethylene) and PP (Poly Propylene). These materials are available in different constructions and specifications. For application in many different industries, we have packaging material especially suited to individual needs.

Usage of HDPE/PP woven bags

Kanpur Plastipack Ltd. offers a comprehensive range of Industrial Packaging materials ideally suited for

- Fertilizers
- Cement
- Plastics Polymers
- Chemicals
- Bale Coverings
- Taraulins
- Sugar
- Foodgrains
- Salt
- Sand, etc.

We offer a wide format of packaging products. Following is a broad classification. you may refer to other pages containing product designs and specifications as well as a ready reckoner.

Types of Packaging Bags / Packaging Fabric

The following are two broad classifications of bags manufactured by us:

WOVEN FABRIC & SACKS

The Product offered can be made from HDPE or PP as required and is in the form of finished Circular Woven Sacks printed / unprinted and laminated or unlaminated to suit customer's size and requirements. Corona treated printing offered on request. The material can

PAPER LINED BAGS

The Paper Lined PP / HDPE Bag is manufactured on a Tubing Machine and is centre welded using high quality Sack Kraft Paper and PP / HDPE fabric as Sandwhich Lamination. These Bags with special self closing valves are ideally suited for Cement and

also be offered in the form of Tubular / packaging of Petrochemicals and Flat fabric in continuous lengths of upto Polymers. Block Bottom Paper Lined 3000 Meters. One of our speciality is to Bags are also offered. We have also manufacture a variety of Box Bags / developed a stiff PP outside laminated Bale Wraps widely used for Packing of bag with gussets and printing on the Staple Fibre used in Europe. UV Gussets. Stabilized material can be offered on request.

Advantages

Woven bags and sacks of HDPE and paper lined bags offer several advantages over other industrial packaging material. Some of the advantages are:

Moisture Proof

HDPE / PP Bags are inherently moisture repellent

Light Weight

HDPE / PP Bags being light weight, offers easy and cheap transportation

Printing

Bright 2 / 3 Colour printing offers aggressive marketing prospects

Stackability

No problems in stacking. Can be gusseted to further improve stacking

Strength

High Tensile strength and long life. No corrosion

Economical

Highly economical compared to other alternative packing material

Seepage

No Seepages specially in paper lined bags

YOU NAME THE MATERIAL, WE WILL GIVE YOU THE BAG

Also See Our

product designs and specifications

[home](#) [profile](#) [product designs](#) [process](#) [market](#)
[quality](#) [iso 9002](#) [ready reckoner](#) [F.I.B.C](#) [enquiry](#) [contact](#)

URL of this site: <http://www.kanplas.com>

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Web site development [MPS Digital Labs, Kanpur \(India\)](#)



| DESCRIPTION | HDPE / PP WOVEN BAGS | PAPER LINED PLASTIC BAGS |
|-------------------------|--|---|
| BAG CONSTRUCTION | | |
| SIZE | Width: 15" (380mm) - 32" (815mm) Length: As per customer's specifications | Width: 15" (380mm) to 24" (610mm) Length: 22" (500mm) to 35" (890mm) |
| STRENGTH | For: Fertilizers - IS:9755-1985 For: Cement-IS:11652(1986) | Width: 70 Kgf. Length: 60 Kgf. Weld Joint: 60 Kgf. |
| PRINTING | Three Colour Flexo Printing Single / Double Side | Three Colour Flexo Printing Single / Double Side |

BAG FORMATS

- Circular Woven Bottom Stitched Laminated or Unlaminated
- HDPE Woven Cloth Bag with inner PE Tubular Film Bag Center Welded
- Circular Woven Unlaminated. With loose PE Liner Bottom Stitched
- HDPE Fabric with One Ply Kraft Paper Inner or Outer sandwich Laminated Open Mouth Type
- Circular Woven Unlaminated / laminated Both ends Sewn Valve Type Mouth
- HDPE Fabric with One Ply Kraft Paper Inner or Outer Sandwich Laminated Both ends sewn. Valve Mouth Type
- Box Bags / Bale Wraps May be stitched with a lid. Coated / Uncoated
- HDPE Fabric with One Ply Kraft Paper sandwich laminated. Inner Loose LDPE Liner. Bottom sewn. Open Mouth Type
- Offered with Gussets also
- Paper may be loose also

FABRIC CONSTRUCTION

MATERIAL

PP / HDPE

PP / HDPE with Kraft Paper

FABRIC WEAVE

8x8 to 12x12 per sq. in. OR
32x32 to 48x48 per sq. dm.

TAPE

Width: Standard 2.5 mm. Other widths on request.

Denier 750 D to 1000 D

SPECIFICATION

FABRIC COLOUR

Natural, Milky or coloured

ADDITIVES

Ultra Violet Stabilized. TiO₂, CaCO₃ or antislip coated or as specified.

LAMINATION

Laminated or Unlaminated available, Loose Liners can also be Laminated Provided with PE / Kraft Paper loose liner, if desired

APPLICATIONS

Fertilizers, Cement, Sugar, Foodgrains, Salt, Flour, Cattle Feed, Cement, Plastics Raw Materials, Tea, Seeds, Sand, Chemicals
Chemicals

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